

## FOREST SERVICE SUPPLEMENTAL SPECIFICATIONS

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ESCALANTE DWELLING #0241 BATHROOM REMODEL

SECTION 011250 - MEASUREMENT AND PAYMENT

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. Measurement and payment for contract work will be made only for and under those pay items included in the Schedule of Items. All other work, labor, materials, equipment, and incidentals necessary to successfully complete the project will be considered as included in the payment for items shown. This section defines the method of measurement and basis of payment for work items listed in the Schedule of Items.

### 1.2 METHOD OF MEASUREMENT

- 1. ACTUAL QUANTITIES (AQ) – These quantities are determined from actual measurements of completed work.
- 2. CONTRACT QUANTITIES (DQ) – These quantities denote the final number of units to be paid for under the terms of the contract. They are based upon the original design data available prior to advertising the project. Original design data include the preliminary survey information, design assumptions, calculations, drawings, and the presentation in the contract.
- 3. LUMP SUM QUANTITIES (LSQ) - These quantities denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job. They shall not be measured.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION 011250

September 2012

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SECTION 011900 - MOBILIZATION

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This item is intended to compensate the Contractor for operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for payment of premiums for bonds and insurance for the project; and for any other work and operations which must be performed or costs that must be incurred incident to the initiation of meaningful work at the site and for which payment is not otherwise provided for under the contract.

### 1.2 MEASUREMENT AND PAYMENT

- A. The measurement shall be lump sum for mobilization. Payment shall be as follows:
  - 1. Bond premiums will be reimbursed after receipt of the evidence of payment.
  - 2. 50% of the lump sum, not to exceed 5% of the original contract amount, will be paid following completion of 5% of the original contract amount not including mobilization and bond premiums.
  - 3. Payment of the remaining portion of the lump sum, up to 10% of the original contract amount, will be paid following completion of 10% of the original contract amount not including mobilization and bond premiums.
  - 4. Any portion of the lump sum in excess of 10% of the original contract amount will be paid after final acceptance.
  - 5. Progress payments for mobilization and preparatory work shall be subject to retainage.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 011900

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## SECTION 013300 - SUBMITTAL PROCEDURES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals. See Table 013300-1 for a summary of required submittals.
- B. See other specification section within this package for additional requirements on submittal.

#### 1.2 SUBMITTAL PROCEDURES

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
  - 1. Coordinate transmittal of different types of submittals for related parts of the work so processing will not be delayed because of need to review submittals concurrently for coordination.
    - a. The Contracting Officer (CO) reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- B. Processing Time: Allow enough time for submittal review, including time for re-submittals, as follows. Time for review shall commence on CO's receipt of submittal.
  - 1. Initial Review: Allow 14 days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. CO will advise Contractor when a submittal being processed must be delayed for coordination.
  - 2. If intermediate submittal is necessary, process it in same manner as initial submittal.
  - 3. Allow 14 days for processing each re-submittal.
  - 4. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the work to permit processing.
- C. Identification: Place a permanent label or title block on each submittal for identification.
  - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
  - 2. Provide a space on label or beside title block to record Contractor's review and approval markings and action taken by CO.

3. Include the following information on label for processing and recording action taken:

- a. Project name.
- b. Date.
- c. Name and address of Contractor.
- d. Name of manufacturer.
- e. Unique identifier, including revision number.
- f. Number and title of appropriate Specification Section.
- g. Drawing number and detail references, as appropriate.
- h. If more than one item is shown on submittal sheet, identify item.

D. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract Documents on submittals.

E. Additional Copies: Unless additional copies are required for final submittal, and unless CO observes noncompliance with provisions of the Contract Documents, initial submittal may serve as final submittal.

F. Use for Construction: Use only final submittals with mark indicating action taken by CO in connection with construction.

### 1.3 MEASUREMENT AND PAYMENT

A. No separate measurement and/or payment will be made for this section. Payment shall be included with work shown in the schedule of items.

## PART 2 - PRODUCTS

### 2.1 ACTION SUBMITTALS – (Submittals requiring CO approval)

A. General: Prepare and submit Action Submittals required by individual Specification Sections.

1. Number of Copies: Submit three copies of each submittal, unless otherwise indicated. CO will return two copies. Mark up and retain one returned copy as a Project Record Document.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.

2. Mark each copy of each submittal to show which products and options are applicable.

3. Include the following information, as applicable:

- a. Manufacturer's written recommendations.
- b. Manufacturer's product specifications.
- c. Manufacturer's installation instructions.

- d. Manufacturer's catalog cuts.
  - e. Wiring diagrams showing factory-installed wiring.
  - f. Compliance with recognized trade association standards.
  - g. Compliance with recognized testing agency standards.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
  - 1. Preparation: Include the following information, as applicable:
    - a. Dimensions.
    - b. Identification of products.
    - c. Fabrication and installation drawings.
    - d. Roughing-in and setting diagrams.
    - e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
    - f. Notation of dimensions established by field measurement.
  - 2. Wiring Diagrams: Differentiate between manufacturer-installed and field-installed wiring.
- D. Contractor's Construction Schedule: The contractor shall submit a Construction Schedule, for approval by CO, in accordance with the contract provisions within 5 day of commencement of work.
- E. Samples: Prepare physical units of materials or products, including the following:
  - 1. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.

## 2.2 INFORMATIONAL SUBMITTALS – (Submittals NOT requiring CO approval)

- A. General: Prepare and submit Informational Submittals required by other Specification Sections.
  - 1. Number of Copies: Submit three copies of each submittal, unless otherwise indicated. CO will not return copies.
  - 2. Certificates and Certifications: Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
  - 3. Test and Inspection Reports: Comply with requirements in Section 014100 "Quality Control."
- B. Material Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements.
- C. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either

during installation of product or after product is installed in its final location, for compliance with requirements.

- D. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment.
- E. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. Review each submittal and check for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to CO.
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
- C. CO will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- D. Submittals not required by the Contract Documents will not be reviewed and may be discarded.
- E. Substitutions – Whenever materials, products, and equipment are listed by name or brand in the specifications and/or on the drawings, it is used as a measure of quality, utility, or standard. If the Contractor prefers to use any other brand or manufacturer of same quality, appearance and utility to that specified, he shall request substitution as provided below, not less than 30 days before the planned installation of the item. The Contracting Officer will approve or disapprove the request for substitution.
- F. Requests for substitutions will only be considered if contractor submits the following:
  - 1. Complete technical data including drawings, complete performance specifications, test data, samples and performance tests of the article proposed for substitution. Submit additional information if required by Contracting Officer. All items in the above information shall be circled, tagged, or marked in some way to indicate all deviations or differences which the proposed item differs from the originally specified item.
  - 2. Similar data as above for item originally specified. All items shall be marked to identify where/how the proposed substitution will differ.
  - 3. A statement by the Contractor that the proposed substitution is in full compliance with the contract documents, applicable codes, and laws.

4. The Contractor shall be responsible for any effect upon related work in the project for any substitution and shall pay any additional costs generated by any substitutions.

3.2 SUBMITTAL SCHEDULE – Submittals shall be made as required by and called for in the drawings and specifications. The following table is a summary of the required submittals for the project - the table is to assist the Contractor and may not be all inclusive – additional submittals may be required by specific specifications:

TABLE 013000-1

Spec. Section	Section Title	Sub-Section	Required Submittal
092900	Gypsum board	1.3A	Product Data
093100	Tiling	1.5A	Product Data
093100	Tiling	1.5B	Samples
093100	Tiling	1.5C	Qualification Data
099120	Interior Painting	1.2A	Product Data
099120	Interior Painting	1.2B	Samples
102800	Accessories	1.2A	Product Data
102800	Accessories	1.2B	Product Schedule
102800	Accessories	1.2C	Maintenance Data
265100	Interior Lighting	1.3A	Product Data
265100	Interior Lighting	1.3B	Installation Instructions

END OF SECTION 013300

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SECTION 014100 – QUALITY CONTROL

## PART 1 - GENERAL

1.1 This work shall consist of providing quality control in conformance with the inspection, testing, and product certification requirements of this contract to ensure compliance with the drawings and specifications. The Contractor shall provide all personnel, equipment, tests, and reports necessary to meet the requirements of the contract.

### 1.2 QUALITY CONTROL

- A. The Contractor shall provide and maintain a quality control system that will ensure all services, supplies, and construction work required under this contract conforms to the contract requirements. The Contractor shall perform, or cause to be performed, the sampling, inspection, and testing required substantiating that all services, supplies, and construction conform to the contract requirements.
- B. Special Tests and Inspections: Contractor will engage a testing agency to conduct required special tests and inspections. The Contractor shall authorize the testing agency to perform the required testing and inspections on the work completed. The authority shall include:
  - 1. Testing agency will interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.
  - 2. Testing agency will re-test and re-inspect corrected work.
- C. Retesting/Reinspecting: Contractor shall provide quality-control services for retesting and reinspection for replaced construction work or for work that failed to comply with the requirements under the contract.

### 1.3 SUBMITTALS

- A. Contractor Quality Control Plan
- B. Permits, Licenses, and Certificates
- C. Test and Inspection Reports

### 1.4 MEASUREMENT AND PAYMENT

- A. No separate payment will be made for the work included under this section; rather payment shall be considered to be included in the items of work listed in the Schedule of Items.

## PART 2 - PRODUCTS (Not Applicable)

## PART 3 - EXECUTION

### 3.1 QUALITY CONTROL SYSTEM

- A. General: Perform required testing, inspections, sampling, and similar services per direction specified in the contract drawings and specifications and in accordance with established industry standards.

### 3.2 CONTRACTOR QUALITY CONTROL PLAN

- A. At the time of the preconstruction conference, the Contractor shall submit for approval a written Contractor Quality Control Plan.
  - 1. If the plan requires any revisions or corrections, the Contractor shall resubmit the plan within 10 days.
  - 2. The Government reserves the right to require changes in the plan during the contract period as necessary.
  - 3. No change in the approved plan may be made without written concurrence by the Contracting Officer.
  - 4. At a minimum, the plan shall include the following:
    - a. A list of personnel responsible for quality control and assigned duties. Include each person's qualifications.
    - b. A copy of a letter of direction to the Contractor's Quality Control Supervisor outlining assigned duties.
    - c. Names, qualifications, and descriptions of laboratories to perform sampling and testing, and samples of proposed report forms.
    - d. Methods of performing, documenting, and enforcing quality control of all work.
    - e. Methods of monitoring and controlling environmental pollution and contamination as required by all applicable regulations and laws.

### 3.3 TEST AND INSPECTION REPORTS

- A. Submit three copies of complete test results no later than three calendar days after the test was performed.
- B. Submit failing test results and proposed remedial actions within four hours of noted deficiency.
- C. Testing and Inspection Reports shall include the following:
  - 1. Date of issue.
  - 2. Project title and number.
  - 3. Name, address, and telephone number of testing agency.
  - 4. Dates and locations of samples, tests, or inspections.
  - 5. Names of individuals performing tests and inspections.

6. Reference Specification Section(s).
7. Complete test or inspection data.
8. Test and inspection results and an interpretation of test results.
9. Ambient conditions at time sample was taken, tested, or inspected.
10. Comments or professional opinion on whether tested or inspected work complies with the Contract Document requirements.
11. Name and signature of laboratory inspector.
12. Recommendations on retesting and reinspecting.

### 3.4 PERMITS, LICENSES, AND CERTIFICATES

- A. For Contracting Officer's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations relevant to the on performance of the work.

### 3.5 SAMPLING, TESTING, AND CERTIFICATION REQUIREMENTS

- A. Sampling, testing, and Certification requirements and frequency for specific items shall be as specified in the drawings and specification. The following table is a summary of the required sampling, testing, and certification for the project - the table is to assist the Contractor, but may not be all inclusive – additional submittals may be required by specific specification section:

B.

TABLE 014100-1			
Item	Subsection	Certification or Test Required	Frequency
102800	1.4A	Leakage Tests	Following connection to water supply

END OF SECTION 014100  
January 2013

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SECTION 024100 - WASTE MATERIAL DISPOSAL

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes the loading, handling, hauling, and disposal of construction debris.

### 1.2 MEASUREMENT AND PAYMENT

- A. There will be no separate measurement or payment for work in this Section. Waste material disposal is considered incidental to other items of work shown in the Schedule of Items.

## PART 2 - PRODUCTS – NOT APPLICABLE

## PART 3 - EXECUTION

### 3.1 Waste material to be removed:

- A. All demolition materials, garbage, and other refuse generated shall be hauled to a disposal area.

### 3.2 Disposal Site:

- A. All waste material shall be removed from the project site and legally disposed off of Government property in an approved landfill.
  - 1. The contractor is responsible for all costs and permits associated with landfill disposal.
  - 2. The Government is not responsible for waste material upon its departure from the project site.

END OF SECTION 024100

September 2012

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SECTION 024119 – SELECTIVE DEMOLITION

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

- A. Drawing general provisions of the Subcontract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

### 1.2 SUMMARY

- A. This sections includes the following:
  - 1. Proper removal of furnishings and fixtures indicated.
- B. Related Sections included the following:
  - 1. Division 2 Section 024100 “Waste Material Disposal”

### 1.3 DEFINITIONS

- A. Remove: The term “remove” shall mean to detach or separate an item, component or assembly from its installed location, and dispose of same. Removal shall be without damage to adjacent material, components or systems that are to remain. Damage that must be incurred during removal shall be repaired as cutting and patching.

### 1.4 QUALITY ASSURANCE

- A. Verify that utility supply lines have been shut off before removal.
- B. Comply with applicable safety codes for removal work.

### 1.5 PROJECT CONDITIONS

- A. Refer to drawings for the extent of removal work.
- B. Carefully inspect the construction work area and the items designated to be removed or preserved.

### 1.6 MEASUREMENT AND PAYMENT

- A. There will be no separate measurement and payment for work included under this section. Payment will be included in the items listed on the Schedule of Items.

END OF SECTION 024119

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SECTION 092900 - GYPSUM BOARD

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Interior gypsum board.
- B. Related Sections include the following:
  - 1. Division 9 Section 093100 "Ceramic Tile" for cementitious backer units installed as substrates for ceramic tile.
  - 2. Division 9 painting Section 099120 "Interior Painting" for primers applied to gypsum board surfaces.

### 1.3 SUBMITTALS

- A. Product data: specific to Type X gypsum board.

### 1.4 STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent sagging.

### 1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
  - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
  - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

## 1.6 MEASUREMENT AND PAYMENT

- A. The measurement and payment for work in the section will be Contract Quantity by square foot as specified in the Schedule of Items.

## PART 2 - PRODUCTS

### 2.1 PANELS, GENERAL

- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

### 2.2 INTERIOR GYPSUM BOARD

- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.

- 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. American Gypsum Co.
- b. BPB America Inc.
- c. G-P Gypsum.
- d. Lafarge North America Inc.
- e. National Gypsum Company.
- f. PABCO Gypsum.
- g. Temple.
- h. USG Corporation.

- B. Type X:

- 1. Thickness: Match surrounding gypsum board.

### 2.3 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.

- 1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet
- 2. Shapes:
  - a. Corner bead.

### 2.4 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:

1. Interior Gypsum Wallboard: Paper.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.

## 2.5 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
- C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
  1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.

## 2.6 TEXTURE FINISHES

- A. Primer: As recommended by textured finish manufacturer.
- B. Aggregate Finish: Water-based, job-mixed, aggregated, drying-type texture finish for spray application.
  1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
    - a. G-P Gypsum; Georgia-Pacific Ceiling Textures/Vermiculite.
  2. Texture: Match gypsum board that is being retained.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames and framing, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.



- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch (1.5 mm) of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
  - 1. Fit gypsum panels around ducts, pipes, and conduits.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

### 3.3 APPLYING INTERIOR GYPSUM BOARD

- A. Install interior gypsum board in the following locations:
  - 1. Replace wet or damaged gypsum board in bathroom. Retain any gypsum board that is of good quality.
  - 2. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

### 3.4 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Interior Trim: Install in the following locations:
  - 1. Corner bead: Use at outside corners unless otherwise indicated.

### 3.5 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.

### 3.6 APPLYING TEXTURE FINISHES

- A. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth.
- B. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture free of starved spots or other evidence of thin application or of application patterns.
- C. Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediately remove droppings and overspray to prevent damage according to texture-finish manufacturer's written recommendations.

### 3.7 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
  - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
  - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 092900

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SECTION 093100 - CERAMIC TILE

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Ceramic floor tile.
  - 2. Thresholds installed as part of tile installations.
  - 3. Ceramic wall tile.
- B. Related Sections include the following:
  - 1. Division 2 Section 024119 "Selective Demolition" for removing existing finishes.

### 1.3 DEFINITIONS

- A. Floor Tile Size: 12x12 inches (minor facial dimension as measured per ASTM C 499) plus joint width indicated.
- B. Wall Tile Size: 12x12 inches (minor facial dimension as measured per ASTM C 499) plus joint width indicated.

### 1.4 PERFORMANCE REQUIREMENTS

- A. Static Coefficient of Friction: For tile installed on walkway surfaces, provide products with the following values as determined by testing identical products per ASTM C 1028:
  - 1. Level Surfaces: Minimum 0.6.

### 1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of tile and grout indicated. Include samples of accessories involving color selection.
- C. Qualification Data: For Installer.

1. A qualified installer who employs workers for this project who are competent in techniques required by manufacturer for ceramic floor and wall tile installation.
2. A qualified installer who employs workers for this project who are competent in techniques required by manufacturer for tile waterproof membrane installation.

#### 1.6 QUALITY ASSURANCE

- A. Perform work in accordance with ASNI/TCA A137.1.
- B. Source Limitations for Tile: Obtain all tile from one source or producer.
  1. Obtain tile from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- C. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.
- D. Source Limitations for Other Products: Obtain each of the following products specified in this Section through one source from a single manufacturer for each product:
  1. Stone thresholds.
  2. Joint sealants.
  3. Tile waterproof membrane.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement in ANSI A137.1 for labeling sealed tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Store liquid latexes and emulsion adhesives in unopened containers and protected from freezing.

#### 1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.
- B. Install adhesives in accordance with the adhesive manufacturer's recommendations. Ventilate the space as necessary to prevent fumes from spreading into occupied spaces of the building.
- C. Install tile after other finishing operations, including painting, have been completed.

## 1.9 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed, for each type, composition, color, pattern, and size indicated.

## 1.10 MEASUREMENT AND PAYMENT

- A. The measurement and payment will be Contract Quantity by square foot as stated in the Schedule of Items.

## PART 2 - PRODUCTS

### 2.1 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.
  - 1. Provide tile complying with Standard grade requirements, unless otherwise indicated.
  - 2. For facial dimensions of tile, comply with requirements relating to tile sizes specified in Part 1 "Definitions" Article.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI standards referenced in "Setting and Grouting Materials" Article.
- C. Colors, Textures, and Patterns: Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:
  - 1. Dal-Tile Pacific Sand Tile or approved equivalent.
- D. Factory Blending: For tile exhibiting color variations within ranges selected during Sample submittals, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- E. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer, unless otherwise indicated.
  - 1. Where tile is indicated for installation in wet areas do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

## 2.2 FLOOR TILE PRODUCTS

### A. Manufacturers:

1. American Olean; Div. of Dal-Tile International Corp.

### B. Glazed Ceramic Floor Tile: Factory-mounted flat tile as follows:

1. Composition: Porcelain.
2. Surface: Smooth with moderate variation and low sheen.
3. Tile Size: 12 x 12 inches (305 x 305 mm)
4. Nominal Thickness: >1/4 inch (6.35 mm).
5. Face: Pattern of design indicated with cushion edges.
6. Products:
  - a. Manufacturer: Dal-Tile
  - b. Product Name: Dal-Tile Santa Barbara Pacific Sand glazed ceramic floor and wall tile, or approved equivalent.
  - c. Model #: SB231212HD1P2 or approved equivalent.

## 2.3 WALL TILE PRODUCTS

### A. Manufacturers:

1. American Olean; Div. of Dal-Tile International Corp.

### B. Glazed Ceramic Wall Tile: Factory-mounted flat tile as follows:

1. Composition: Porcelain.
2. Surface: Smooth with moderate variation and low sheen.
3. Tile Size: 6 x 6 inches (152.4 x 152.4 mm)
4. Nominal Thickness: >1/4 inch (6.35 mm).
5. Face: Pattern of design indicated with cushion edges.
6. Products:
  - a. Manufacturer: Dal-Tile
  - b. Product Name: Dal-Tile Santa Barbara Pacific Sand glazed ceramic floor and wall tile, or approved equivalent.
  - c. Model #: SB2366HD1P2 or approved equivalent.

### C. Ceramic Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing of adjoining flat tile where applicable. Provide shapes as follows, selected from manufacturer's standard shapes:

## 2.4 THRESHOLDS

### A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.

1. Description: Match surrounding tile.

## 2.5 WATERPROOF MEMBRANE

### A. Manufacturers:

1. LATICRETE International Inc.

### B. Product:

1. 9235 system, fluid applied waterproof membrane or approved equivalent.

## 2.6 SETTING AND GROUTING MATERIALS

### A. Manufacturers:

1. LATICRETE International Inc.

### B. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4, consisting of the following:

1. Prepackaged dry-mortar mix containing dry, redispersible, ethylene vinyl acetate additive to which only water must be added at Project site.
  - a. For wall applications, provide nonsagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.

### C. Polymer-Modified Tile Grout: ANSI A118.7, color to be determined by engineer in charge.

1. Polymer Type: Ethylene vinyl acetate, in dry, redispersible form, prepackaged with other dry ingredients.

## 2.7 ELASTOMERIC SEALANTS

### A. General: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer and characteristics indicated.

### B. Colors: Provide colors of exposed sealants to match colors of grout in tile adjoining sealed joints, unless otherwise indicated.

## 2.8 MISCELLANEOUS MATERIALS

### A. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

### B. Grout Sealer: Manufacturer's standard product for sealing grout joints that does not change color or appearance of grout.

## 2.9 MIXING MORTARS AND GROUT

### A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

### B. Add materials, water, and additives in accurate proportions.

- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
  - 1. Verify that substrates for setting tile are firm; dry; clean; free of oil, waxy films, and curing compounds; and within flatness tolerances required by referenced ANSI A108 Series of tile installation standards for installations indicated.
  - 2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed before installing tile.
  - 3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.
- B. Provide concrete substrates for tile floors installed with adhesives or thin-set mortars that comply with flatness tolerances specified in referenced ANSI A108 Series of tile installation standards.
  - 1. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions. Use product specifically recommended by tile-setting material manufacturer.
  - 2. Remove protrusions, bumps, and ridges by sanding or grinding.
- C. Blending: For tile exhibiting color variations within ranges selected during Sample submittals, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

### 3.3 INSTALLATION, GENERAL

- A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.



- B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.
- C. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- D. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- E. Jointing Pattern: Lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
- F. Expansion Joints: Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
  - 1. Locate joints in tile surfaces directly above joints in concrete substrates.
  - 2. Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."
- G. Grout tile to comply with requirements of the following tile installation standards:

### 3.4 FLOOR TILE INSTALLATION

- A. General: Install tile to comply with requirements in the Floor Tile Installation Schedule, including those referencing TCA installation methods and ANSI A108 Series of tile installation standards.
  - 1. For installations indicated below, follow procedures in ANSI A108 Series tile installation standards for providing 95 percent mortar coverage.
    - a. Tile floors composed of tiles 12 x 12 inch.
- B. Joint Widths: Install tile on floors with the following joint widths:
  - 1. Ceramic Mosaic Tile: 1/16 inch (1.6 mm).
- C. Stone Thresholds: Install stone thresholds at locations indicated; set in same type of setting bed as abutting field tile, unless otherwise indicated.
  - 1. Set thresholds in latex-portland cement mortar for locations where mortar bed would otherwise be exposed above adjacent nontile floor finish.
- D. Grout Sealer: Apply grout sealer to grout joints according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer that has gotten on tile faces by wiping with soft cloth.

### 3.5 WALL TILE INSTALLATION

- A. Install types of tile designated for wall installations to comply with requirements in the Wall Tile Installation Schedule, including those referencing TCA installation methods and ANSI setting-bed standards.
- B. Joint Widths: Install tile on walls with the following joint widths:
  - 1. Ceramic Wall Tile: 1/16 inch (1.6 mm).

### 3.6 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
  - 1. Remove epoxy and latex-portland cement grout residue from tile as soon as possible.
  - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions, but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
- B. When recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.
- C. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- D. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION 093100

April 2013

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ESCALANTE DWELLING #0241 BATHROOM REMODEL

SECTION 099120 - INTERIOR PAINTING

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes surface preparation and the application of paint systems on the following interior substrates:
  - 1. Wood.
  - 2. Gypsum board.

### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Color Selection: For each type of topcoat product indicated.

### 1.3 QUALITY ASSURANCE

- A. MPI Standards:
  - 1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
  - 2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.

### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

### 1.5 PROJECT CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

### 1.6 MEASUREMENT AND PAYMENT

- A. The measurement and payment for the work in this section will be lump sum quantity by lump sum as specified in the Schedule of Items.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Martha Stewart Living
  - 2. Behr
  - 3. Benjamin Moore & Co.
  - 4. Kwal-Howell Paint.
  - 5. Sherwin-Williams Company (The).

### 2.2 PAINT - GENERAL

- A. Material Compatibility:
  - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. Colors: Colors shall be as indicated in a color schedule to be determined by the Contracting Officer.

### 2.3 PRIMERS AND SEALERS

- A. Interior Latex Primer/Sealer: MPI #50.

### 2.4 LATEX PAINTS

- A. High-Performance Architectural Latex (Eggshell): MPI #139 (Gloss Level 3).

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - 1. Wood: 15 percent.
  - 2. Gypsum Board: 12 percent.

- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
  - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove cover plates, wall hangings, machined surfaces, and similar items already in place that are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations and after surfaces have dried per manufacturer's instruction, reinstall items that were removed. Remove surface-applied protection if any.
  - 2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- C. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
- D. Wood Substrates:
  - 1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
  - 2. Sand surfaces that will be exposed to view, and dust off.
  - 3. Prime edges, ends, faces, undersides, and backsides of wood.
  - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- E. Gypsum Board Substrates: Do not begin paint application until finishing compound is dry and sanded smooth.

### 3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.

- B. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

### 3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

### 3.5 INTERIOR PAINTING SCHEDULE

- A. Dressed Lumber Substrates: Including doors.
  - 1. Latex System: MPI INT 6.3T.
    - a. Prime Coat: Interior latex-based wood primer.
    - b. Intermediate Coat: Interior latex matching topcoat.
    - c. Topcoat: Interior latex eggshell
  - 2. Latex over Alkyd Primer System: MPI INT 6.3U.
    - a. Prime Coat: Interior alkyd primer/sealer.
    - b. Intermediate Coat: Interior latex matching topcoat.
- B. Gypsum Board Substrates:
  - 1. Latex System: MPI INT 9.2A.
    - a. Prime Coat: Interior latex matching topcoat.
    - b. Intermediate Coat: Interior latex matching topcoat.
    - c. Topcoat: Interior latex eggshell.
  - 2. Alkyd over Latex Primer System: MPI INT 9.2C.
    - a. Prime Coat: Interior latex primer/sealer.
    - b. Intermediate Coat: Interior alkyd matching topcoat.
    - c. Topcoat: Interior alkyd eggshell.

END OF SECTION 099120

April 2013

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ESCALANTE DWELLING #0241 BATHROOM REMODEL

SECTION 102800 –ACCESSORIES

## PART 1 - GENERAL

### 1.1 SUMMARY

A. This Section includes the following:

1. Bathroom furniture
2. Washroom accessories

### 1.2 SUBMITTALS

A. Product Data: For each type of product indicated. Include the following:

1. Construction details and dimensions.
2. Material and finish descriptions.
3. Features that will be included for Project.
4. Manufacturer's warranty.
5. Color Selection Charts: for Fixtures (Tub, Toilet, Lavatory Basin)

B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

1. Identify locations using room designations indicated on Drawings.
2. Identify products using designations indicated on Drawings.

C. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

### 1.3 COORDINATION

A. Coordinate accessory locations with other work to prevent interference with clearances indicated in drawings.

### 1.4 TESTING

A. Test all plumbing fixtures following connection to water piping to verify that there is no water leakage at the connections.

### 1.5 MEASUREMENT AND PAYMENT:

A. The measurement and payment for the work in this section will be lump sum quantity by lump sum as specified in the Schedule of Items.

## PART 2 - PRODUCTS

## 2.1 MATERIALS

- A. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- B. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.

## 2.2 WASHROOM ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, the following manufacturers are recommendations :
  - 1. St. Paul
  - 2. MOEN
  - 3. Dal-Tile
  - 4. Elegant Home Fashions
- B. Toilet Tissue (Roll) Dispenser
  - 1. Model: MOEN Stockton Freestanding Pivoting Toilet Paper Holder in Brushed Nickel Model # DN4150BN or approved equal.
  - 2. Capacity: Designed for 1 typical sized tissue roll.
  - 3. Mounting: Freestanding.
  - 4. Color/ Finish: Brushed Nickel.
- C. Towel Bar
  - 1. Model: Moen Stockton 24in Double Towel bar in Brushed Nickel Model # DN4122BN or approved equivalent.
  - 2. Capacity: Multiple towels.
  - 3. Mounting: Wall mount.
  - 4. Color/Finish: Brushed Nickel
- D. Shower Shelf
  - 1. Model: Dal-Tile Bathroom Accessories White 8x8 in Corner Shelf Bath Accessory or approved equivalent.
  - 2. Material: Ceramic Tile.
  - 3. Mounting: Wall mount countersunk into tile.
  - 4. Color: White
- E. Soap Dish
  - 1. Model: Dal-Tile Bathroom Accessories White 4x6 in Soap Dish Wall Accessory or approved equivalent.
  - 2. Material: Ceramic Tile
  - 3. Mounting: Wall mount countersunk into tile.
  - 4. Color: White
- F. Shower Rod



1. Model: Moen 5ft Curved Shower Rod with Pivoting Flanges in Brushed Nickel Model # CSR2165BN or approved equivalent.
2. Fixed or Tension: Fixed.
3. Material/Finish: Stainless steel, Brushed Nickel.

G. Vanity with Lavatory

1. Model: St. Paul Del Mar 36in W Vanity with AB Engineered Composite Top in Espresso Model # DMSD36P2COM-W
2. Fixture Type: Vanity cabinet and top with basin.
3. Sink Basin Alignment: Center.
4. Sink Mount Type: Farmhouse/Apron Front
5. Cabinet Color: Espresso
6. Basin Color: Almond (or equivalent, such as Taupe or Beige; Submit Samples to Contracting Officer for selection)
7. Dimensions: 36Wx12.5Dx36H in.

H. Medicine Cabinet

1. Model: St. Paul Del Mar 20in Medicine Cabinet in Espresso Model # DMMC20COM-E or approved equivalent.
2. Material: Aspen (Populus)
3. Mounting: Wall mount
4. Color: Espresso
5. Dimensions: 20Dx4.83Wx26H in.

I. Over-the-Toilet Shelving

1. Model: St. Paul Del Mar 20.5in Over John in Espresso Model # DMOJ21COM-E or approved equivalent.
2. Material: Aspen (Populus)
3. Mounting: Wall mount
4. Color: Espresso
5. Dimensions: 20.5Wx7.5Dx25.6H in.

J. Linen Tower

1. Model: Elegant Home Fashions Americana 15x12.5x56 7/8 in. Linen Tower in Dark Espresso
2. Mount: Freestanding
3. Color: Dark Espresso
4. Dimensions: 15Wx12.5Dx56.875H in.

K. Shower and Tub Spout

1. Model: Moen Banbury 1-Handle Single-Spray Tub and Shower Faucet in Spot Resist Brushed Nickel Model #82910SRN or approved equivalent.
2. Bath Faucet Type: Combo Tub and Shower
3. Color/Finish: Brushed Nickel

L. Lav. Faucet

1. Model: Banbury 4in Centerset 2-Handle Low-Arc Bathroom Faucet in Brushed Nickel Model # CA84912CBN or approved equivalent.
2. Mounting: Deckplate
3. Color/Finish: Brushed Nickel

## 2.3 TOILET AND BATH ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, the following manufacturers are recommendations:

1. American Standard

B. Tub

1. Model: American Standard Colony 5-1/5ft Acrylic Bathtub with Right-Hand Drain in White Model #1749.102.020
2. Installation Method: Apron Front
3. Material: Acrylic
4. Color: Almond (or equivalent, such as Taupe or Beige; Submit Samples to Contracting Officer for selection)

C. Toilet

1. Model: American Standard 2758.813 Cadet 3 Right Height Flowise Round Front Toilet with Right Hand Lever and 12" Rough or approved equivalent
2. Material: Vitreous China
3. Color: Almond (or equivalent, such as Taupe or Beige; Submit Samples to Contracting Officer for selection)

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

### 3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

END OF SECTION 102800

October 2012

USDA FOREST SERVICE, R-4

ESCALANTE DWELLING #0241 BATHROOM REMODEL

SECTION 260000 - ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the movement of an outlet.

1.2 QUALITY ASSURANCE

- A. Verify that electrical supply has been shut off before attempting movement.
- B. Comply with applicable safety codes for movement.
- C. Damage that must be incurred during movement shall be repaired to acceptable quality. This includes patching the hole of existing outlet.

1.3 PROJECT CONDITIONS

- A. Refer to drawings for inquiry of movement.

1.4 MEASUREMENT AND PAYMENT

- A. There will be no separate measurement and payment for work included under this section. Payment for work in this Section is considered incidental to, and included in, the Lump Sum Pay Item for Section 102800 Accessories on the Schedule of Items.

1.5 EXECUTION

- A. Comply with requirements of ANSI/NFPA standard 70.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 260000

October 2012

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ESCALANTE DWELLING #0234 BATHROOM REMODEL

SECTION 265100 - INTERIOR LIGHTING

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Interior lighting fixtures
  - 2. Lighting fixture supports.

### 1.2 DEFINITIONS

- A. BF: Ballast factor.
- B. CRI: Color-rendering index.
- C. HID: High-intensity discharge.
- D. Luminaire: Complete lighting fixture, including ballast housing if provided.

### 1.3 SUBMITTALS

- A. Product Data: For each type of lighting fixture, arranged in order of fixture designation. Include data on features, accessories, finishes, and the following:
  - 1. Physical description of lighting fixture including dimensions.
- B. Installation instructions.

### 1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

### 1.5 COORDINATION

- A. Install in place of previous lighting fixture.

### 1.6 MEASUREMENT AND PAYMENT

- A. No separate measurement or payment will be made for work specified in this section. Payment for work in this Section is considered incidental to, and included in, the Lump Sum Pay Item for Section 102800 Accessories on the Schedule of Items.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Products:

1. Hampton Bay Aranda 4-Light Flush Mount Ceiling Brushed Nickel Linear Fluorescent Light Model # HBF1339-35 or approved equivalent.
2. Hampton Bay Stratus 3-Light Brushed Nickel Vanity-Model # DMQ1393P or approved equivalent.

### 2.2 GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS

- A. Fluorescent Fixtures: Comply with UL 1598. Where LER is specified, test according to NEMA LE 5 and NEMA LE 5A as applicable.
- B. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.
- C. Factory-Applied Labels: Comply with UL 1598. Include recommended lamps and ballasts. Labels shall be located where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.
  1. Label shall include the following lamp and ballast characteristics:
    - a. "USE ONLY" and include specific lamp type.
    - b. Lamp diameter code (T-4, T-5, T-8, T-12, etc.), tube configuration (twin, quad, triple, etc.), base type, and nominal wattage for fluorescent and compact fluorescent luminaires.
    - c. Lamp type, wattage, bulb type (ED17, BD56, etc.) and coating (clear or coated) for HID luminaires.
    - d. Start type (preheat, rapid start, instant start, etc.) for fluorescent and compact fluorescent luminaires.
    - e. ANSI ballast type (M98, M57, etc.) for HID luminaires.
    - f. CCT and CRI for all luminaires.

### 2.3 BALLASTS FOR LINEAR FLUORESCENT LAMPS

- A. General Requirements for Electronic Ballasts:
  1. Comply with UL 935 and with ANSI C82.11.
  2. Designed for type and quantity of lamps served.
  3. Ballasts shall be designed for full light output unless another BF, dimmer, or bi-level control is indicated.

4. Sound Rating: Class A.
  5. Transient Voltage Protection: IEEE C62.41.1 and IEEE C62.41.2, Category A or better.
- B. Single Ballasts for Multiple Lighting Fixtures: Factory wired with ballast arrangements and bundled extension wiring to suit final installation conditions without modification or rewiring in the field.
- C. Ballasts for Residential Applications: Fixtures designated as "Residential" may use low-power-factor electronic ballasts having a Class B sound rating and total harmonic distortion of approximately 30 percent.

## 2.4 BALLASTS FOR COMPACT FLUORESCENT LAMPS

- A. Description: Electronic-programmed rapid-start type, complying with UL 935 and with ANSI C 82.11, designed for type and quantity of lamps indicated. Ballast shall be designed for full light output unless dimmer or bi-level control is indicated:
1. Lamp end-of-life detection and shutdown circuit.
  2. Automatic lamp starting after lamp replacement.
  3. Sound Rating: Class A.
  4. Total Harmonic Distortion Rating: Less than 20 percent.
  5. Transient Voltage Protection: IEEE C62.41.1 and IEEE C62.41.2, Category A or better.
  6. Operating Frequency: 20 kHz or higher.
  7. Lamp Current Crest Factor: 1.7 or less.
  8. BF: 0.95 or higher unless otherwise indicated.
  9. Power Factor: [0.95], except fixtures designated as "Residential" may use low-power-factor electronic ballasts] or higher.
  10. Interference: Comply with 47 CFR 18, Ch. 1, Subpart C, for limitations on electromagnetic and radio-frequency interference for nonconsumer equipment.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Lighting fixtures:
1. Set level, plumb, and square with ceilings and walls unless otherwise indicated.
  2. Install lamps in each luminaire.
    - a. NFPA 70 requires minimum support for fixtures.

END OF SECTION 265100

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